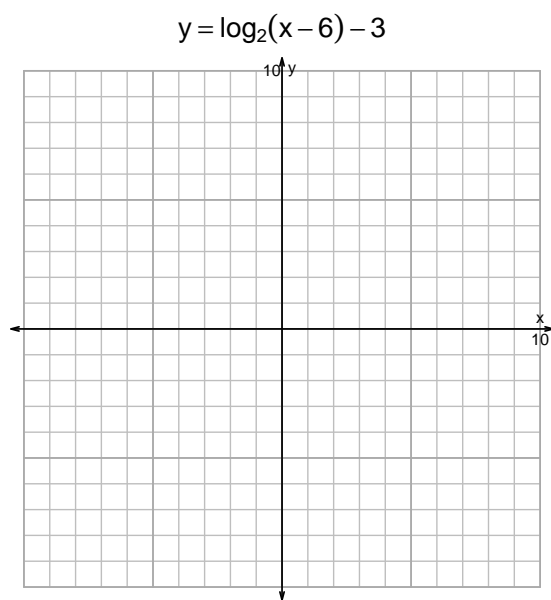
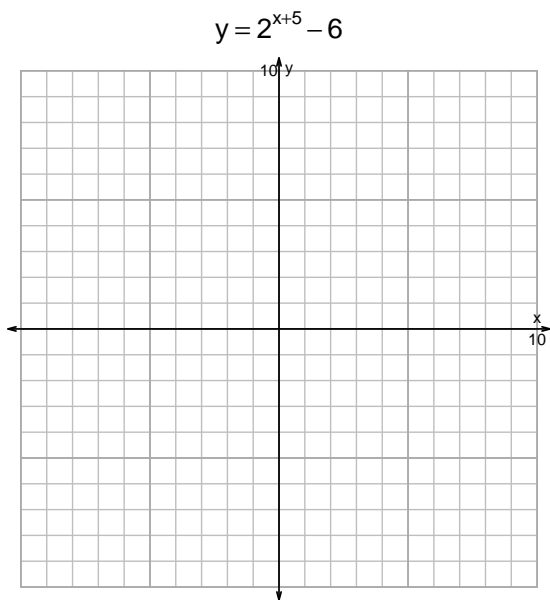


Name: _____

Date: _____

s18QUIZ: EXP LOG (QUIZ v241)

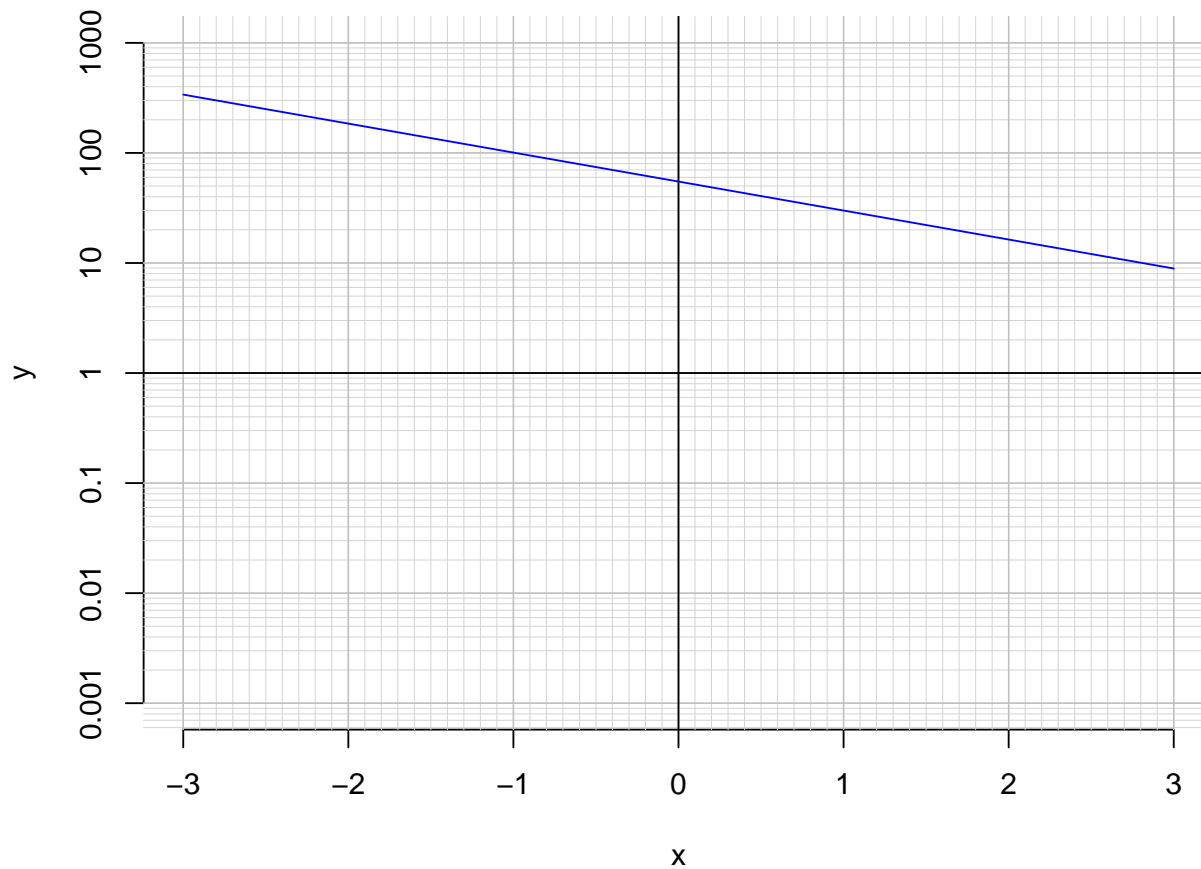
1. Graph $y = 2^{x+5} - 6$ and $y = \log_2(x - 6) - 3$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$23 = \left(\frac{4}{5}\right) \cdot 10^{-7t/3}$$

3. An exponential function $f(x) = 54.9 \cdot e^{-0.606x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(-0.4)$.

- b. Express $f^{-1}(x)$, the inverse of f .

- c. Using the plot above, evaluate $f^{-1}(300)$.